

REMARKS

The drawings, specification and claims are amended to correct informalities.

Drawings

FIGURE 1: Glass sheet 110 in Figure 1A is relabeled as 109 in order to avoid conflict with target tube 110 of Figure 2. The text is amended in paragraph 0003 to reflect this change. Reference sign 130 is added to Figure 1B.

FIGURE 2: Figures 2A-2D have been modified to add “Prior Art” to each drawing. Reference sign 110c is added to Figure 2A. The arrows indicating “ID” have been moved to clearly show the inner diameter of target tube 110.

FIGURE 3: Reference signs 272, 212 and 214 are deleted. Reference sign 210 is amended to clearly indicate the correct part as shown in other figures such as Figure 5.

FIGURE 4: References 5A-5D of Figure 4 are deleted or amended to conform to the numbering used in other figures and to illustrate the components of reference 201. Reference signs 42, 242 and 264 are deleted. Reference sign 201 is added to Figure 4 to indicate drive assembly 201 as shown in Figure 5.

FIGURE 6: Reference sign 346 is shown twice, indicating two separate elements in Figure 6. The specification refers to “flow through water bushings 346” (see paragraph 0047) and “outboard bearing 346” (see paragraph 0049). The specification is amended to read “outboard bearing 347” and the corresponding element in Figure 6 is relabeled as “347.”

Reference sign 356 is deleted. Reference sign 350 is replaced by 356. Thus, 356 indicates a different location than previously shown. The location of cavity port 356 is indicated in paragraph 0047. “Dual vacuum seals 350 are located between WEIH 304 and water spindle 320 and seal the high pressure water from the surrounding vacuum environment and vice versa. Between the two seals a water sensor determines if the first seal has been breached and triggers a status alert at the user interface. The water sensor is connected to and monitors interseal cavity port 356.” Thus, it is believed that interseal cavity 356 is correctly labeled according to this amendment.

FIGURE 7: Reference signs 7, 345, 17A-17B are deleted from Figure 7.

FIGURE 8: Reference sign 366 is amended to clearly indicate support tube 366 as

disclosed in paragraph 0048 of the specification.

FIGURE 10: Reference sign 503 is amended to clearly indicate the shield assembly 503 disclosed in paragraph 0070 as being “a multi piece curved shield assembly 503.” Reference sign 505 (the lower of two reference signs 505) is modified to clearly indicate “insulating bushing 505” as disclosed in paragraph 0059.

FIGURE 12: “Radiant heat energy 600” is added. This element is supported in paragraph 0071 of the specification. “The radiant heat energy 600 from the process arrives at the left side of the page.” Reference sign 508 is changed to 308. The specification refers to “endblock housing 308.” See, for example, paragraph 0072.

The amended drawings are submitted with redlines to show changes made. Formal drawings incorporating these changes will be submitted if the changes are approved.

Specification

The specification is amended at paragraph 0003 to replace “glass sheet 110” with “glass sheet 109.” This is to avoid conflict with “target tube 110” shown in Figure 2. Figure 1A is also amended to replace “110” by “109.” Paragraph 0003 is also amended to reflect the correct spelling of the reference author “Russell J. Hill.”

The specification is amended at paragraph 0049 to identify “dual vacuum seals 338” instead of “dual vacuum seals 354” as previously written. Paragraph 0049 states “The ceramic bearing 334 is supported by bearing and seal carrier 360. Carrier 360 also supports dual vacuum seals.” The part labeled 338 in Figure 6 is within seal carrier 360 and is beside ceramic bearing 334. Thus, this identification is believed to be supported in the text. The remainder of this sentence is deleted.

Claims

Claims 12, 14, 24, 40, 44, 47, 48, 49 and 51 are amended to correct informalities. These amendments were discussed by telephone on Thursday November 13, 2003. It is submitted that all claims are now in condition for allowance.

Conclusion

It is believed that the present application is now in condition for allowance, and an early indication of its allowance is solicited. However, if the Examiner is aware of any further matters that require attention, a telephone call to the undersigned at 415-318-1160 would be appreciated.

Respectfully submitted,


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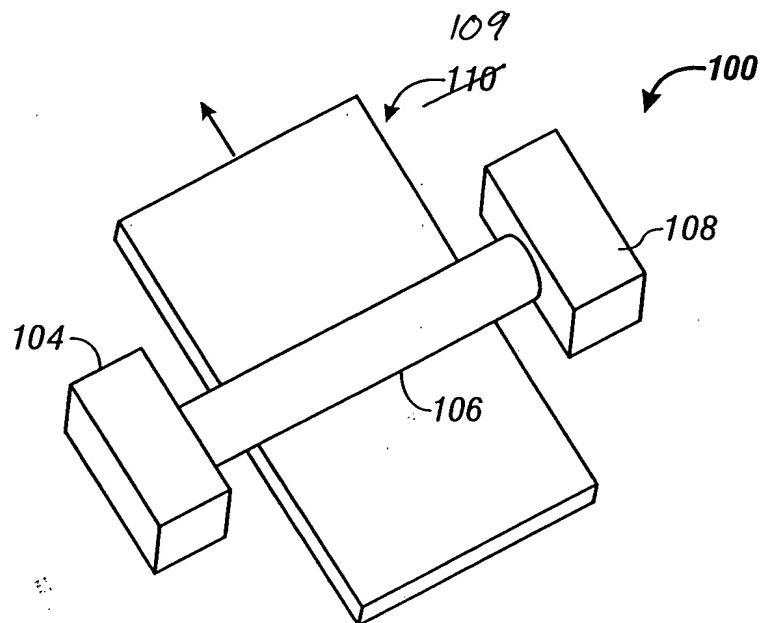


FIG. 1A
(Prior Art)

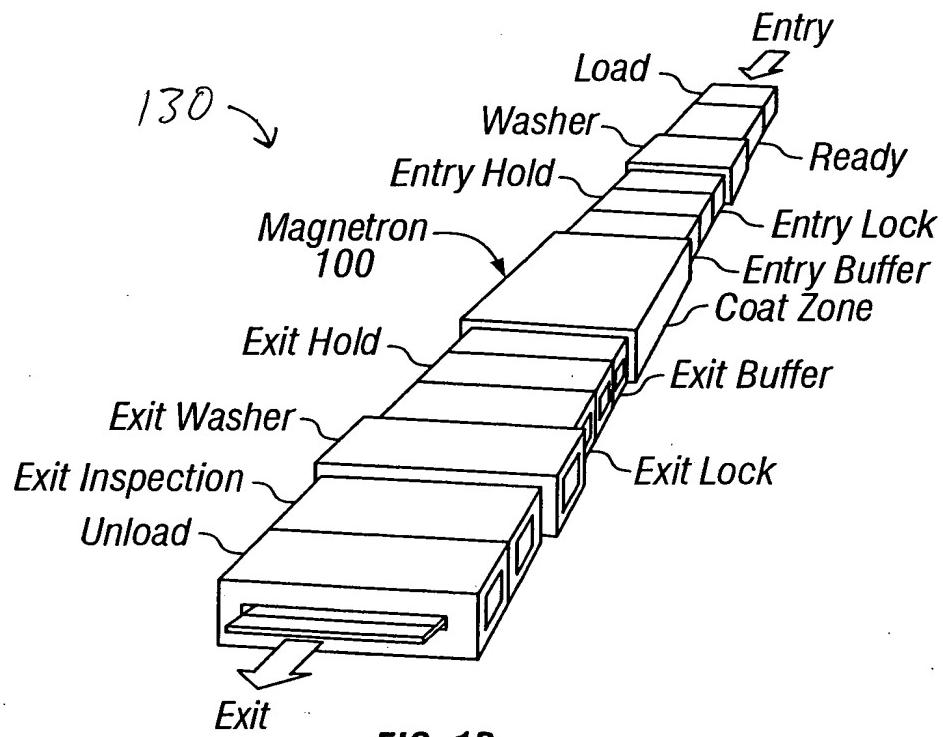


FIG. 1B
(Prior Art)



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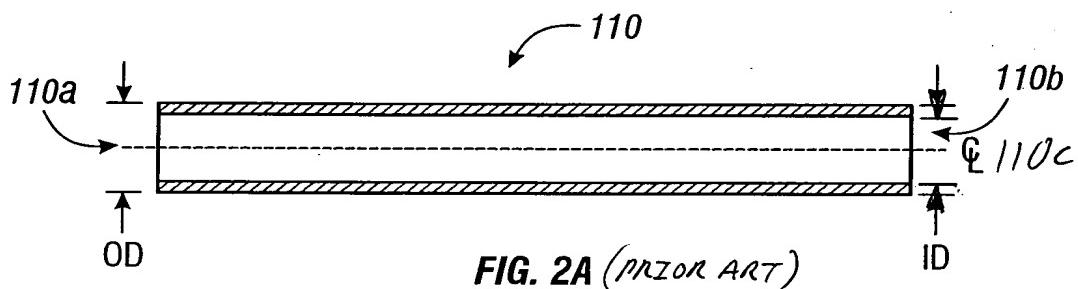


FIG. 2B (prior art)



FIG. 2C (prior art)



FIG. 2D
(Prior Art)



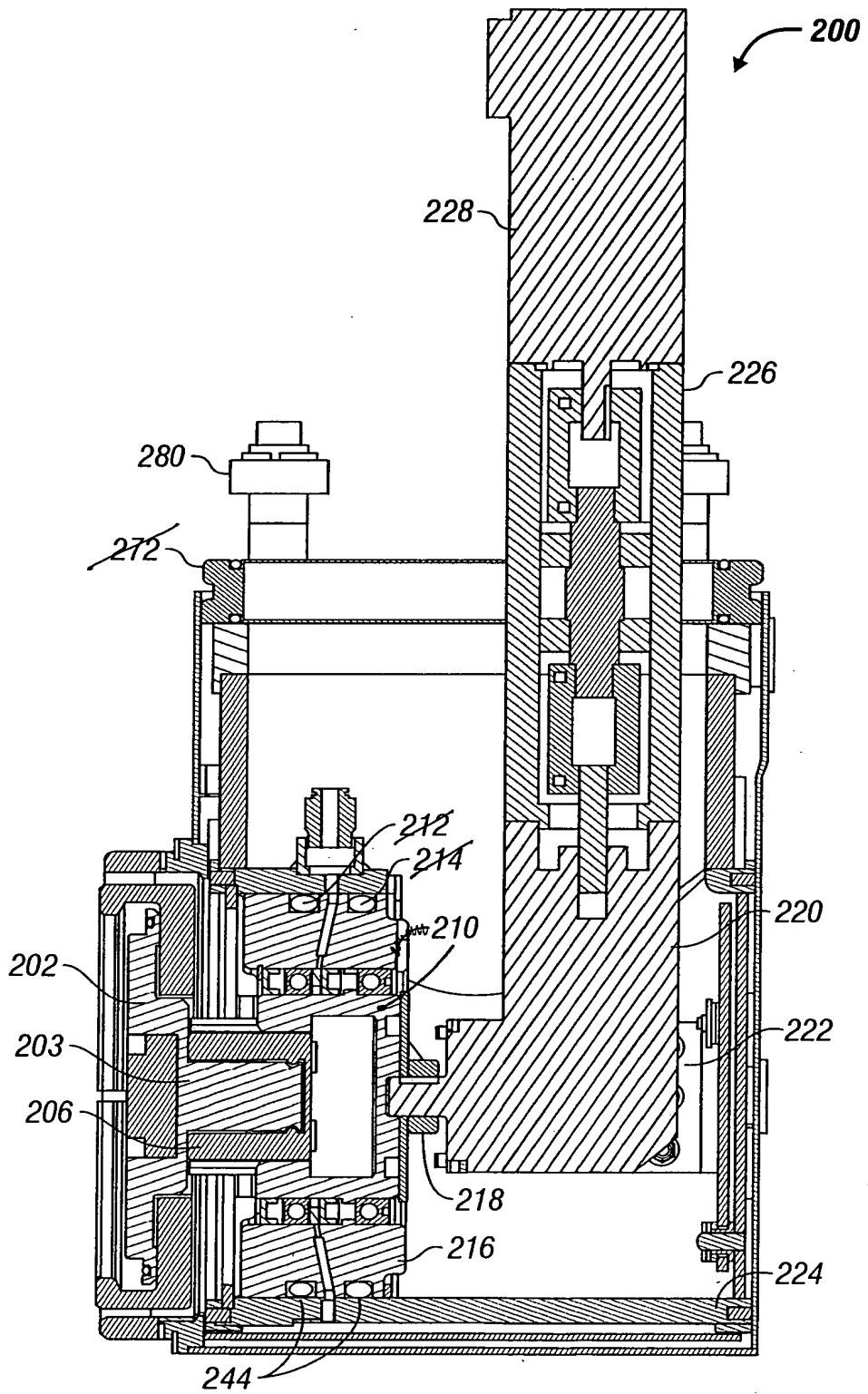


FIG. 3



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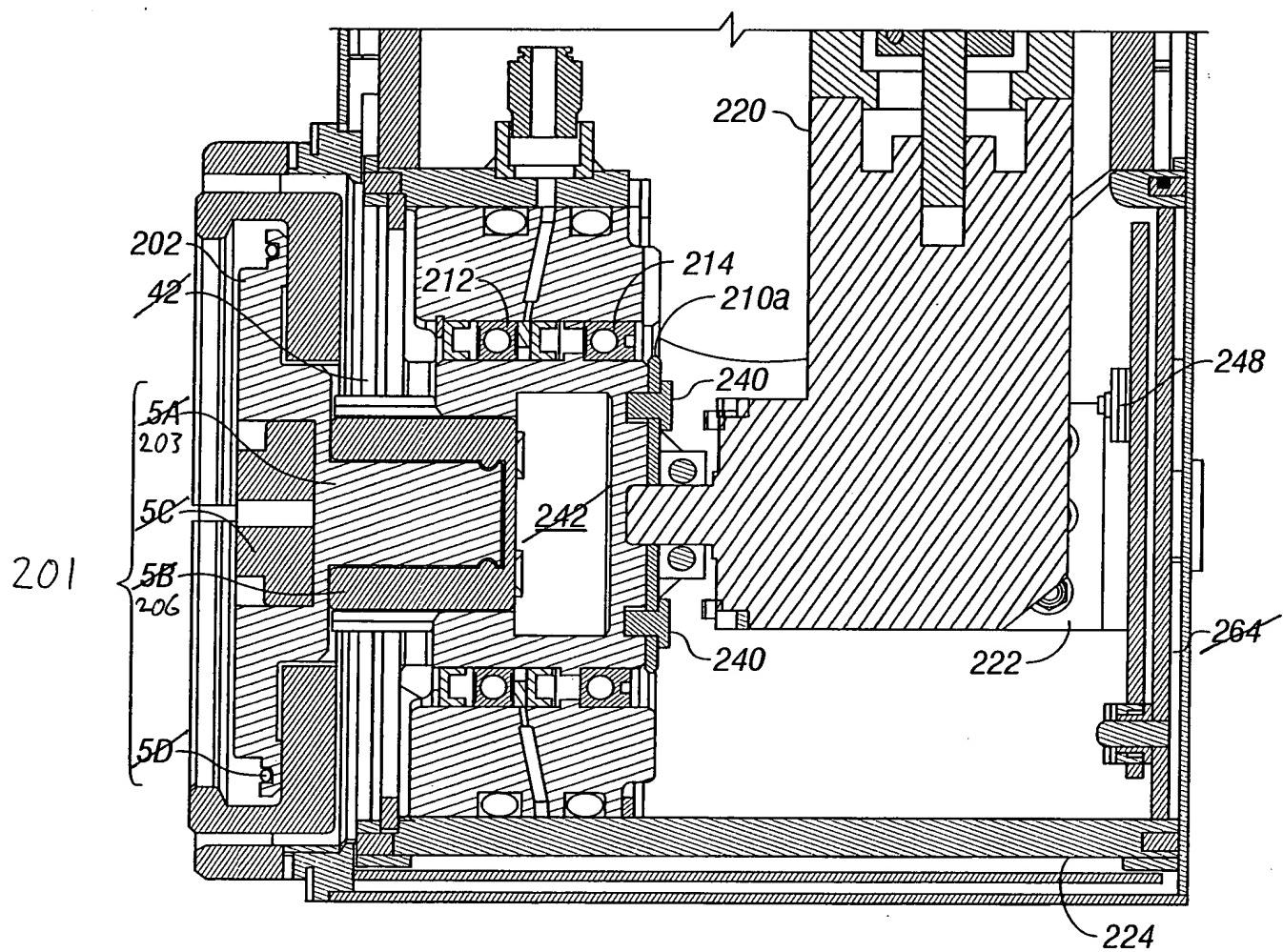


FIG. 4



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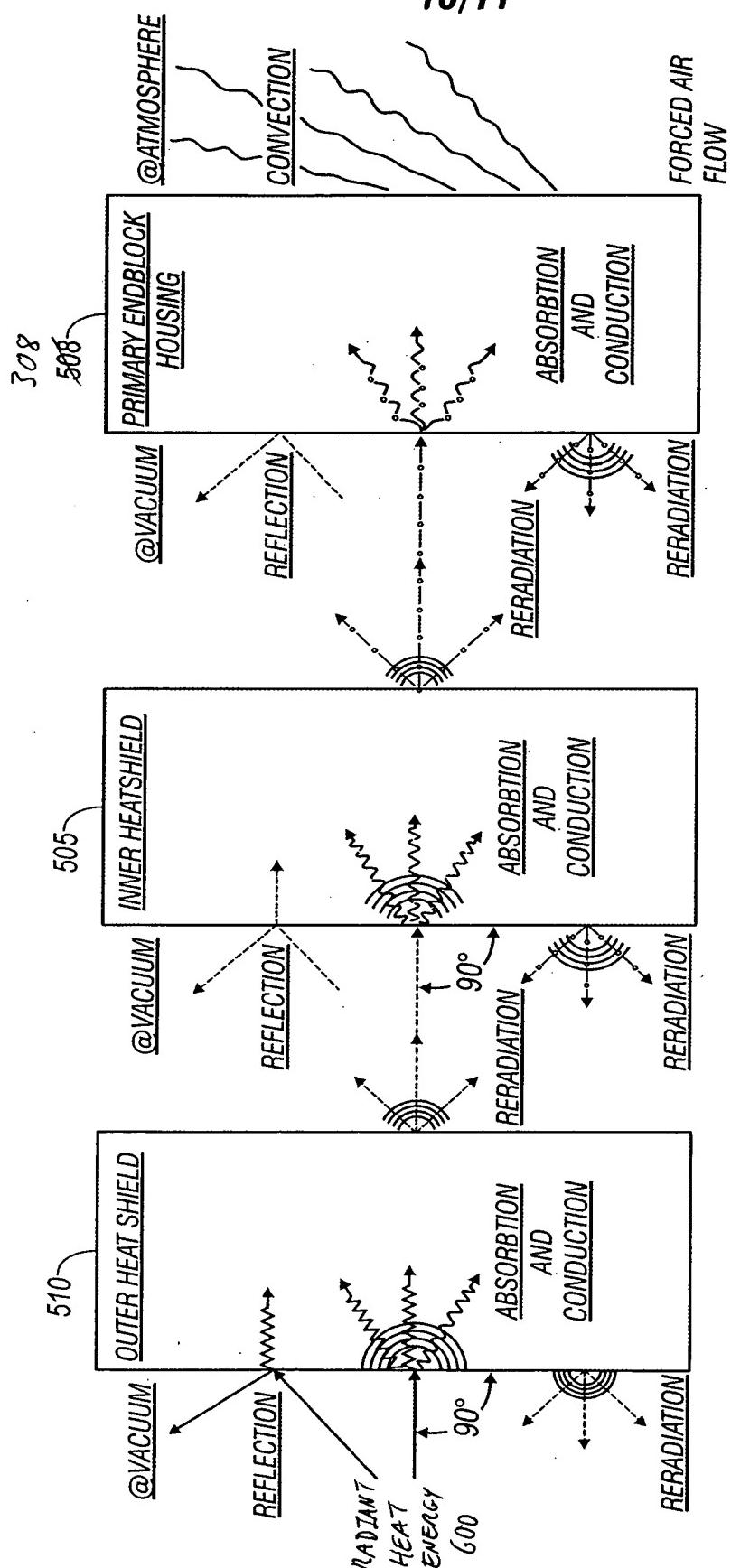


FIG. 12

